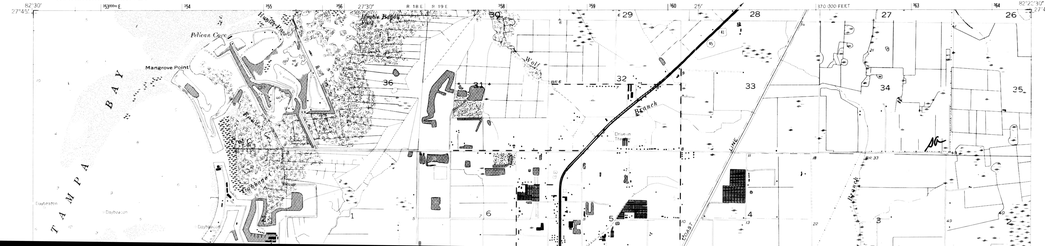
I 49.89/2: 85(15) map A17

ORIGINAL

I 49.89/2:85(15) map A17

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RUSKIN QUADRANGLE
FLORIDA
7.5 MINUTE SERIES (TOPOGRAPHIC)

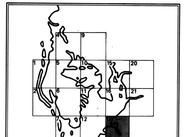


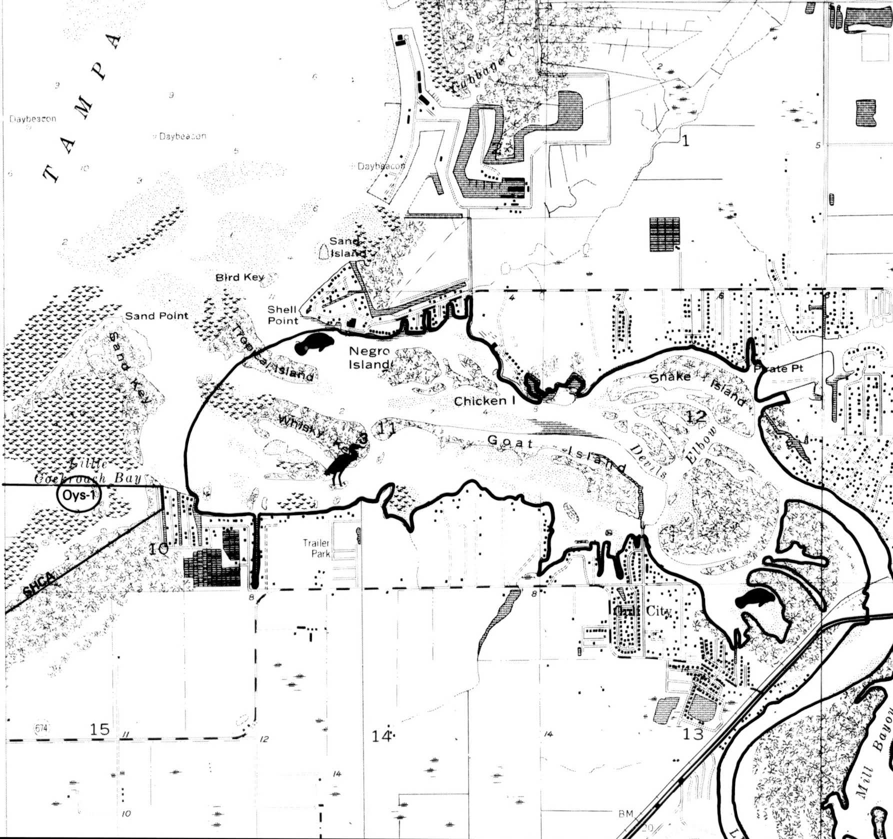
MAPA17

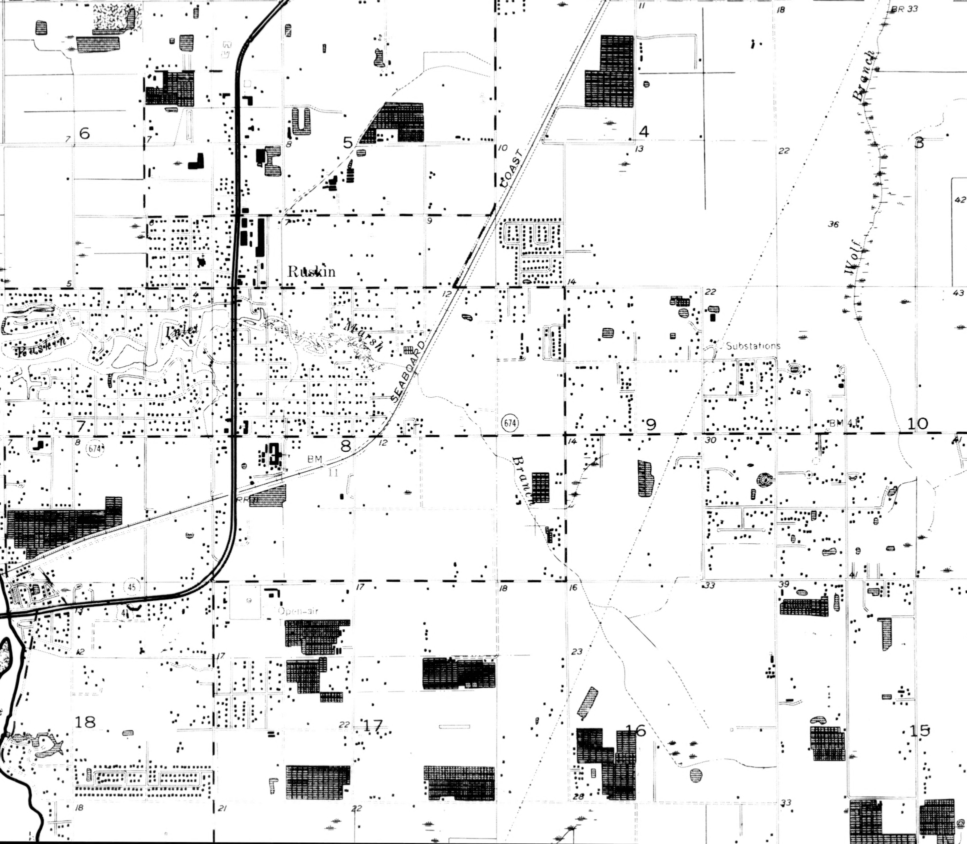
TAMPA BAY ENVIRONMENTAL ATLAS

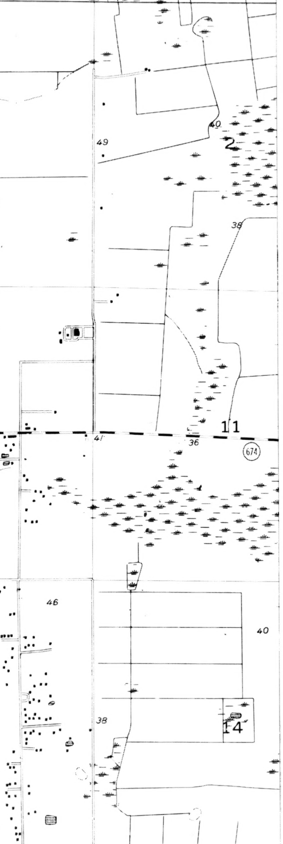
BIOLOGICAL RESOURCES

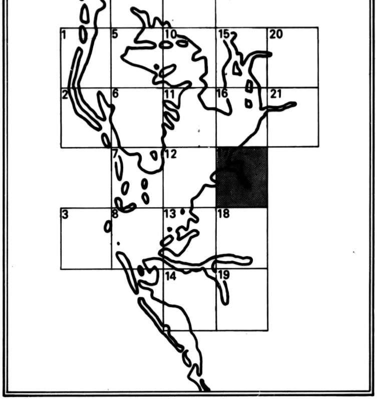
RUSKIN




TAMPA
Daybeacon
Daybeacon
Daybeacon
Cabbage Cr
1
2
5
Sand Island
Bird Key
Shell Point
Sand Point
Sand Key
Tropical Island
Negro Island
Chicken I
Snake Island
Pirate Pt
12
Whisky Key
11
Goat Island
Devils Elbow
Little Cockroach Bay
Oys-1
SHCA
10
Trailer Park
City
674
15
14
13
Mill Bayou
BM


Ruskin
Ruskin
Inlet
Marsh
SEABOARD
COAST
Wolf
Branch
Branch
Substations
Open-air
BM
BM 41
674
674
45
41
BR 33
6
5
4
3
7
8
9
10
18
17
16
15
42
43
36
22
11
13
14
12
30
33
39
23
28
21
RR


49
40
2
38
11
41
36
674
46
40
38
14


1
5
10
15
20
2
6
11
16
21
7
12
17
3
8
13
18
14
19

Scale 1:24,000

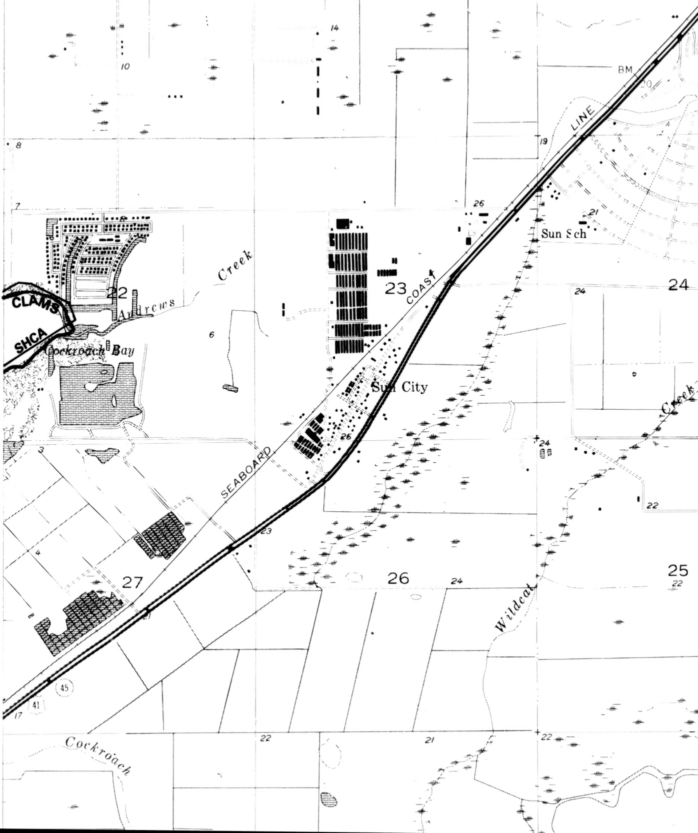
U.S. DEPARTMENT OF THE INTERIOR
MARCH 3, 1849

1984

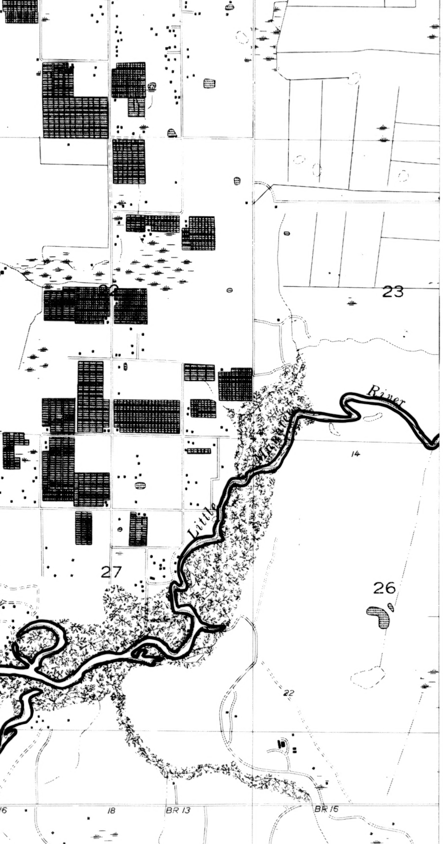
TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. WATER RESOURCES

Produced by U.S. Fish and Wildlife Service
Projection and 1,000 meter grid, zone 17: Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.


CLAMS
SHCA
Cockroach Bay
Andrews
Creek
22
23
24
25
26
27
Sun City
Sun Sch
SEABOARD
COAST
LINE
BM
Wildcat
Creek
Cockroach
45
41
14
10
8
7
6
3
4
19
20
21
17

Mill B
LITTLE
MANATEE
RIVER
Hayes
Bayou
Bolster Bayou
Ruskin Cem
18
21
22
28
33
16
20
21
19
27
24
21
23
30
23
21
23
24
12
29
28
11
9
13
16


23
22
27
26
14
22
Little Manatee River
16
18
BR 13
BR 15

Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.

There are no maps A19, A20, A21 due to a lack of data.

LEGEND

SHELLFISH HARVEST AREA
(Florida Dept. of Natural Resources)

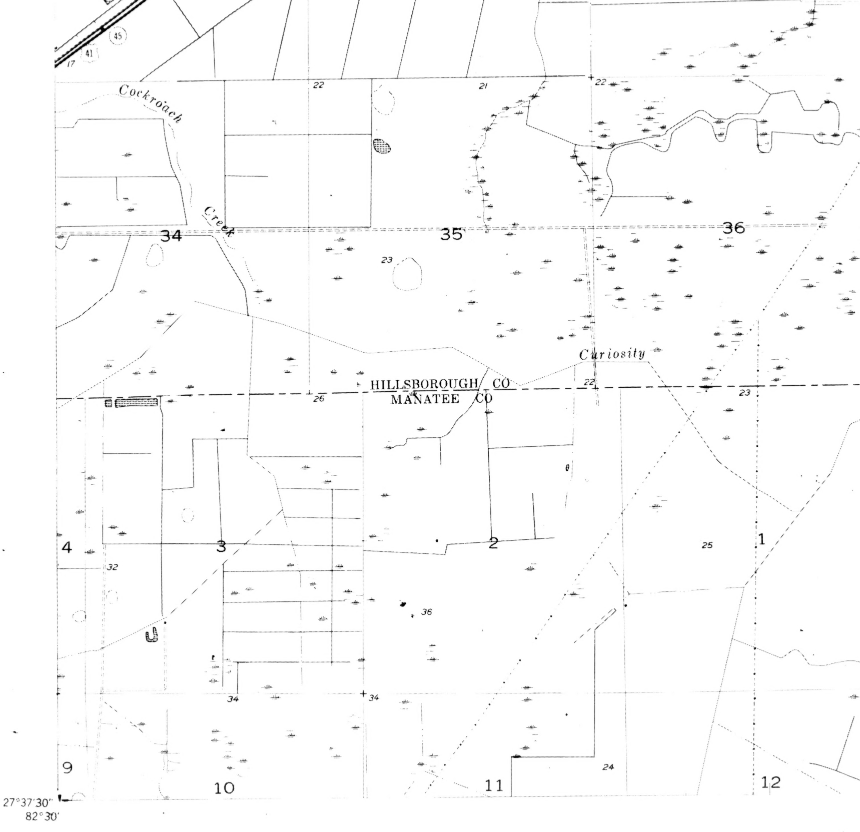
SHA	Shellfish Harvest Approved
SHCA	Shellfish Harvest Conditionally Approved

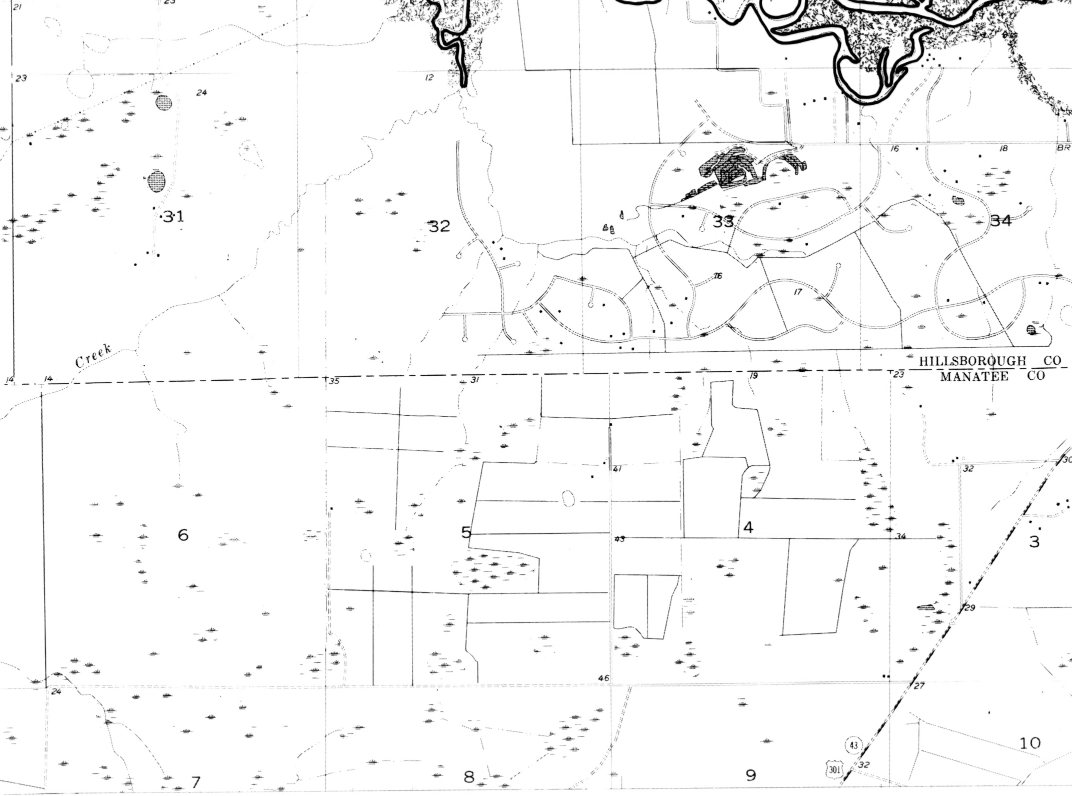
NOTE: Due to Dept. of Natural Resources (DNR) water quality standards all other estuarine areas are prohibited or unclassified as to shellfish harvest status and are officially unapproved. For further info. on status of harvest areas contact DNR - Shellfish Environmental Assessment Section.

Oys-1	Public Oyster Bed
Oys-2	Private Oyster Bed (Lease)
CLAMS	Clam Bed

FINFISH SPAWNING, NURSERY AND HARVEST AREAS
(Recreational Hook and Line Fishing)

SPECIES #	FINFISH CATEGORY Common Name	SPAWNING													NURSERY AREA[1]	MAJOR NURSERY HABITATS							AREA OF ADULT ABUNDANCE[1]	MAJOR ADULT HABITATS						MIGRATION TYPE[2]
		LOCATION[1]	SEASON													Seagrass	Mangrove	Saltmarsh	Beach	Coral Reef	Artificial Reef	Open Water		Seagrass	Mangrove	Beach	Coral Reef	Artificial Reef	Open Water	
			J		M		M		J		S		N																	
	ESTUARINE DEPENDENT FISHES																													
1	Red Drum	C	■	■							■	■	■	■	E	●	●	●					E	●	●	●				2
2	Spotted Seatrout	E			■	■	■	■	■	■	■	■			E	●	●	●					E	●	●					2

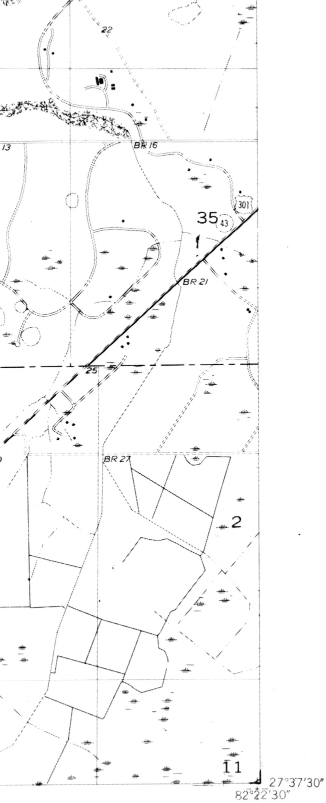

45
41
17
Cockroach
Creek
22
21
22
34
35
36
23
Curiosity
HILLSBOROUGH CO
MANATEE CO
22
26
23
4
3
2
25
1
32
36
34
34
9
10
11
24
12
27°37'30"
82°30'


31
32
33
34
6
5
4
3
7
8
9
10
Creek
HILLSBOROUGH CO
MANATEE CO
43
301
BR
21
23
24
12
14
16
17
18
19
23
35
31
41
43
34
32
30
29
27
46
24
32

SCALE 1:24 000

½ 0 1 MILE

(Recreational Hook and Line Fishing)


22
13
BR 16
301
35
43
BR 21
25
BR 27
2
11
27°37'30"
82°22'30"

SPECIES #	FINFISH CATEGORY Common Name	SPAWNING		NURSERY AREA¹	MAJOR NURSERY HABITATS							AREA OF ADULT ABUNDANCE¹	MAJOR ADULT HABITATS						MIGRATION TYPE²
		LOCATION¹	SEASON J M M J S N		Seagrass	Mangrove	Saltmarsh	Beach	Coral Reef	Artificial Reef	Open Water		Seagrass	Mangrove	Beach	Coral Reef	Artificial Reef	Open Water	
	ESTUARINE DEPENDENT FISHES																		
1	Red Drum	C	■■□□□□□□■■■■	E	●	●	●					E	●	●	●				2
2	Spotted Seatrout	E	□□■■■■■■■■□□	E	●	●	●					E	●	●					2
3	Snook	C	□□□□■■■□□□□□	E	●	●	●					E	●	●					2
4	Sheepshead	C	□□■■■□□□□□□□	C	●							C-E			●		●		1
5	Southern Flounder	C	□□□□□□□□■■■■	C-E	●			●				C-E	●		●				2
6	Florida Pompano	CS	□□□■■■■■■■□□	C-E				●				C-E			●			●	3
7	Striped Mullet	CS	■□□□□□□□□■■■	E	●	●	●					E	●	●	●				3
8	Gulf Menhaden	C	■■■□□□□□□□■■	E	●	●	●					C-E	●		●			●	3
9	Spanish Sardine	C	□□□□□■■■■□□□	E	●	●	●					C-E	●		●			●	3
10	Black Drum	C	■■■■■□□□□□■■	E	●	●	●					E	●	●	●				1
	REEF FISHES																		
11	Red Grouper	CS	□□■■■□□□□□□□	CS-C	●				●	●		CS				●	●		2
12	Jewfish	CS	□□□□□□■■□□□□	CS-C	●				●	●		CS-C				●	●		2
13	Gag Grouper	CS	■■■■□□□□□□□■	CS-C	●				●	●		CS-C				●	●		2
14	Scamp	CS	□□■■□□□□□□□□	CS	●				●	●		CS				●	●		2
15	Red Snapper	CS	□□□□□□■■■■□□	CS-C	●				●	●		CS-C				●	●		2
16	Mangrove Snapper	CS	□□□■■■■■□□□□	C-E	●	●						C-E				●	●		2
	COASTAL PELAGIC FISHES																		
17	King Mackerel	OCS	□□□□■■■■■□□□	CS							●	CS-C				●	●	●	4
18	Spanish Mackerel	CS	□□□□■■■■■□□□	CS							●	CS-C				●	●	●	4

¹KEY:

E — Estuarine
C — Coastal
CS — Continental Shelf
OCS — Outer Continental Shelf

²MIGRATION TYPE:

1 — Pesidentially Restricted
2 — Random Residential Range
3 — Restricted Migration
4 — Extensive Migration

COLONIAL BIRD NESTING SITE *

• Number appearing with symbol indicates colony sites. Colony sites and species - composition data are included in the narrative.

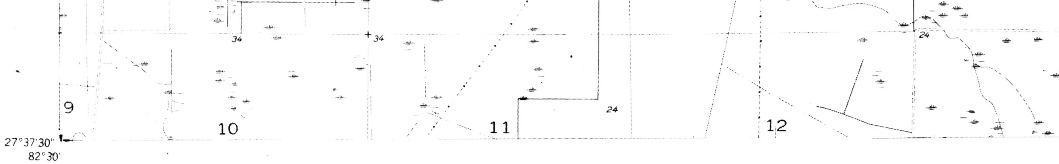
Shorebird

Wading Bird

Brown Pelican

WEST INDIAN MANATEE HABITAT

MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)
1.0



1
½
1000
0
1000
1
5

THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS) FOR COASTAL PLANNERS, DECISION MAKERS AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES A MAJOR PORTION OF THE COASTAL COUNTIES OF PINELLAS, HILLSBOROUGH, MANATEE, AND A SMALL PORTION OF SARASOTA. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION:

SHELLFISH HARVEST AREAS: Shellfish Harvest Area Maps, Dept. of Natural Resources, 1982.

PUBLIC & PRIVATE OYSTER BEDS: Cooperative Gulf of Mexico Estuarine Inventory and Study, Florida, McNulty, Lindall and Sykes, 1972.

CLAMS: Personal Communication, Discussion of Distribution Clams in Tampa Bay and Adjacent Brackish Waters, Mr. L. Tracy Three T's Clam Company, 1983. Mike Sprague, Draft Maps, Department of Natural Resources, 1984

SCALLOP BEDS: Personal Communication, Mr. Bill Lyons Dept. of Natural Resources, Marine Research Laboratory, 1982

FINFISH SPAWNING, NURSERY & HARVEST AREAS: Florida's Fishing Grounds, Moe, 1970.

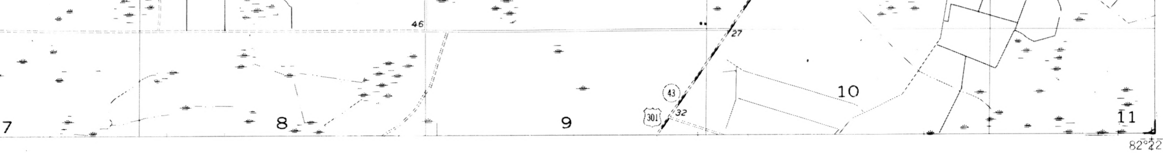
BIRD NESTING SITES: Florida Atlas of Breeding Sites for Herons and Their Allies: 1976-78, Nesbitt, S.A., Ogden, J.C., Kale II, H.W., et.al. U.S. Fish and Wildlife Service, 1982. Personal Communication, Maps and Data, Dr. H.W. Kale II, Florida Audubon Society, 1982

MANATEE HABITAT: Boaters guide to Manatees, the gentle giants, Florida Marine Patrol, 1980.

SEAGRASS BEDS: Tampa Bay Seagrass Maps, 1:10,000 and 1:24,000 Scales, Mangrove Systems, Inc. 1980 National Wetlands Inventory Maps, 1:24,000 Scale, U.S. Fish and Wildlife Service, 1983.

ARTIFICAL REEFS: Computer Printout of Florida Artifical Reefs, U.S. Army Corps of Engineers, 1981. Recreational Use Reefs in Florida: Artifical and Natural, Florida Sea Grant Program, 1979.

FOR COMPLETE REFERENCE SEE MAP NARRATIVE



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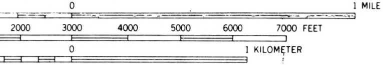

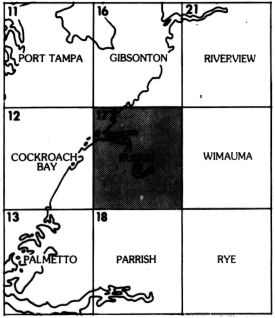

composition data are included in the narrative.

27°37'30"
'30"

Shorebird

Wading Bird

Brown Pelican

WEST INDIAN MANATEE HABITAT

STATE MANATEE SANCTUARY

▨ **SEAGRASS BEDS**

■ **ARTIFICAL REEF***
(Permitted by Florida Dept. of Environmental Regulation)
Numbers next to reefs refer to composition data in narrative

**Symbols appearing with numbers are described more fully in the narrative.*

MICROFILMED FROM
BEST AVAILABLE COPY

MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)
4.5 5.0 2.8 3.2 3.6 2.5 2.2 2.0 1.8

L0
L1
L25
L4
L6

L0
L1
L25
L4
L6